

USER SATISFACTION WITH VENDOR CUSTOMER

SERVICES LARGE SYSTEMS

WESTERN EUROPE 1980

INPUT

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# S E P T E M B E R 1 9 9 0

# USER SATISFACTION WITH VENDOR CUSTOMER SERVICES

# LARGE SYSTEMS WESTERN EUROPE

1990

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**Customer Service Programme in Europe  
(CSPE)**

***User Satisfaction with Vendor Customer  
Services—Large Systems, Western Europe,  
1990***

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## Abstract

This report presents of data relating user perceptions of vendor service performance and user satisfaction with the servicing of large systems.

The data presented in this report has been collected by INPUT during the first half of 1990 in a survey of computer users in the following countries:

- Belgium
- France
- Italy
- The Netherlands
- Norway
- Spain
- Sweden
- Switzerland
- West Germany
- The United Kingdom

This report contains 64 pages including 65 exhibits.



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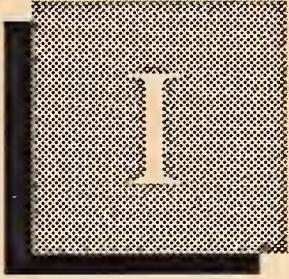
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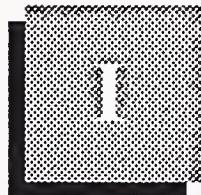
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# Introduction

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## Introduction

### A

#### Objectives and Scope

This INPUT 1990 interim report on user requirements for customer service in Western Europe presents the large systems computer user's view of many aspects of computer system service and support.

The report is intended to enable service vendors to assess the service performance levels achieved by their organisations in 1990. Data, which relates to user perception of major vendor service performance, is presented in simple tabulated form. Trends relating to service performance can be assessed by comparing the data contained in this report with previous INPUT Annual Reports.

The report also contains tabulated data relating to the overall Western European user population, to enable vendors to compare their performance with overall mean values of Western European vendor performance.

### B

#### Methodology

The data presented in this interim report was compiled from interviews with 158 large systems computer users throughout Western Europe. Users were chosen at random and interviewed by telephone in their native language when necessary. The basis of user interviews was a questionnaire relating to over 100 aspects of service and support, compiled from discussions with major service vendors. A copy of the user questionnaire is included as Appendix A.

Analysis contained within this report is focused on major equipment vendors.

Details of the user sample analysed in this report are given in Exhibits I-1 and I-2.

## EXHIBIT I-1

**User Sample by Vendor**

Vendor	System Range			Total
	Large	Medium	Small	
Bull	7	34	36	77
Digital	27	27	24	78
Hewlett-Packard	-	59	10	69
IBM	43	118	40	201
ICL	30	44	26	100
NCR	6	17	-	23
Siemens	5	15	3	23
Unisys	17	41	15	73
Wang	20	28	30	78
Other Vendors	3	64	21	88
Total	158	447	205	810

## EXHIBIT I-2

**User Sample by Country**

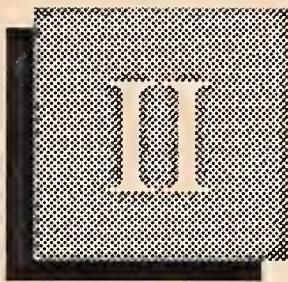
Country	System Range			Total
	Large	Medium	Small	
Belgium	4	7	3	14
France	19	85	53	157
Germany	21	82	22	125
Italy	31	46	23	100
Netherlands	5	41	15	61
Norway	4	10	6	20
Spain	22	49	16	87
Sweden	8	24	8	40
Switzerland	4	17	6	27
United Kingdom	40	86	53	179
Total	158	447	205	810

**C****Report Structure**

The remaining chapters of this report are structured as follows:

- Chapter II explains the basis of the statistics, the correct method of interpretation and ways of doing simple comparisons.
- Chapter III contains tabulated data and mean values relating to user perception of service performance overall in Western Europe.
- Chapter IV contains tabulated data relating to user perception of major equipment vendors' service performance.
- Appendix A contains the questionnaire used for user interviews.

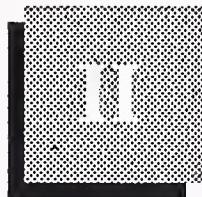




## Interpretation of the Data

[Redacted]





## Interpretation of the Data

### A

#### Definitions

- **Hardware:** any computer system or peripheral system
- **Software:** operating systems software, NOT applications
- **Large system:** a system that is considered by the vendor part of that vendor's large system product range—for example IBM 309X and 308X, Bull DPS 8, or Digital VAX 8XXX.
- **Medium System:** a system that is considered by the vendor part of that vendor's medium system product range—for example IBM 43XX and AS/400, Bull DPS 7, or Digital VAX 6XXX.
- **Small system:** a system that is considered by the vendor part of that vendor's small system product range—for example IBM S34 and S36, Bull DPS6 or Digital Microvax.
- **Documentation:** user documentation, provided by the product vendor, which relates to operation and use of the computer system hardware or systems software.
- **Standard Error:** (of the mean) is the standard deviation (SD) of the sample divided by the square root of the sample size.

### B

#### Statistics

Mean values are used throughout the tabulated data presented in this report. These mean values refer to either the mean value of user sample ratings for specific aspects of service performance, or to the overall mean value for a range of service performance factors. In either case the mean value calculation is weighted according to the number of user responses recorded.

The standard error for individual vendor data has been estimated for each set of tabulated data, calculation of the estimated standard error being based on the standard error for the overall sample across all ranges of system size. In general, the collective values from a large sample follow a normal distribution; readers of this report can accept that a deviation of individual vendor sample means of more than four times the standard error from the population sample mean is very unlikely. Hence the deviation would indicate a significant difference. In statistical terms, the probability of the mean for the total of all users in Europe being more than three times the standard error of the mean of the sample (total user sample is 810 for all system ranges) away from the sample mean, is about 0.4%.

In analysing the data presented in this report, INPUT has carefully scanned all the answers given during the interviews; when these answers were considered to be a gross departure from the norm, the data has been discounted. The objective of this exercise was to eliminate the worst effects of skew on distributions due to gross distortions.

Statistically, small sample sizes create difficulties due to the fact that they may not be totally representative of the population they represent. Although in the interests of completeness INPUT has included data relating to small samples, since these form part of a larger overall vendor sample, caution is recommended in assessing data from these small samples. A sample size of 20 should be considered the minimum to produce a statistically valid result.

## C

### Ratings and Satisfaction Index

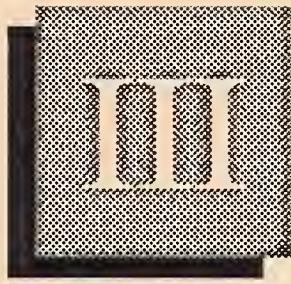
In this report, ratings for importance and satisfaction are on a scale of 0 to 10 where:

- Importance
  - 0 = of no importance whatsoever
  - 5 = of average importance
  - 10 = extremely important
- Satisfaction
  - 0 = total and absolute dissatisfaction
  - 5 = average satisfaction
  - 10 = total satisfaction

The satisfaction index throughout this report is based on the difference between the importance and satisfaction ratings for specific aspects of service. The questions concerning importance and satisfaction were asked at the same time and the answers therefore reflect the respondent's value judgement at that time.

- Ratings of 10 and 10, or 6 and 6, etc., give a difference value of zero, indicating that the importance needs are fully satisfied.
- Ratings of importance 8 and satisfaction 9 would indicate overfulfillment of the importance needs, and would give a satisfaction index of -1. In INPUT's analysis an overfulfillment of -1 is represented as (1).
- Ratings of importance 6 and satisfaction 5 indicate underfulfillment of the importance needs and would give a satisfaction index of 1, the degree of underfulfillment being related to the magnitude of this difference.
- Satisfaction index can thus be interpreted as follows:
  - (1) = overfilled or oversatisfied
  - 0 = completely satisfied
  - 1 = concerns and worries
  - 2 = real dissatisfaction
  - 3 = pain level

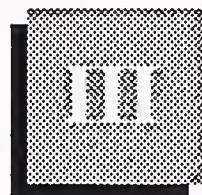




# Western European Service Performance Data

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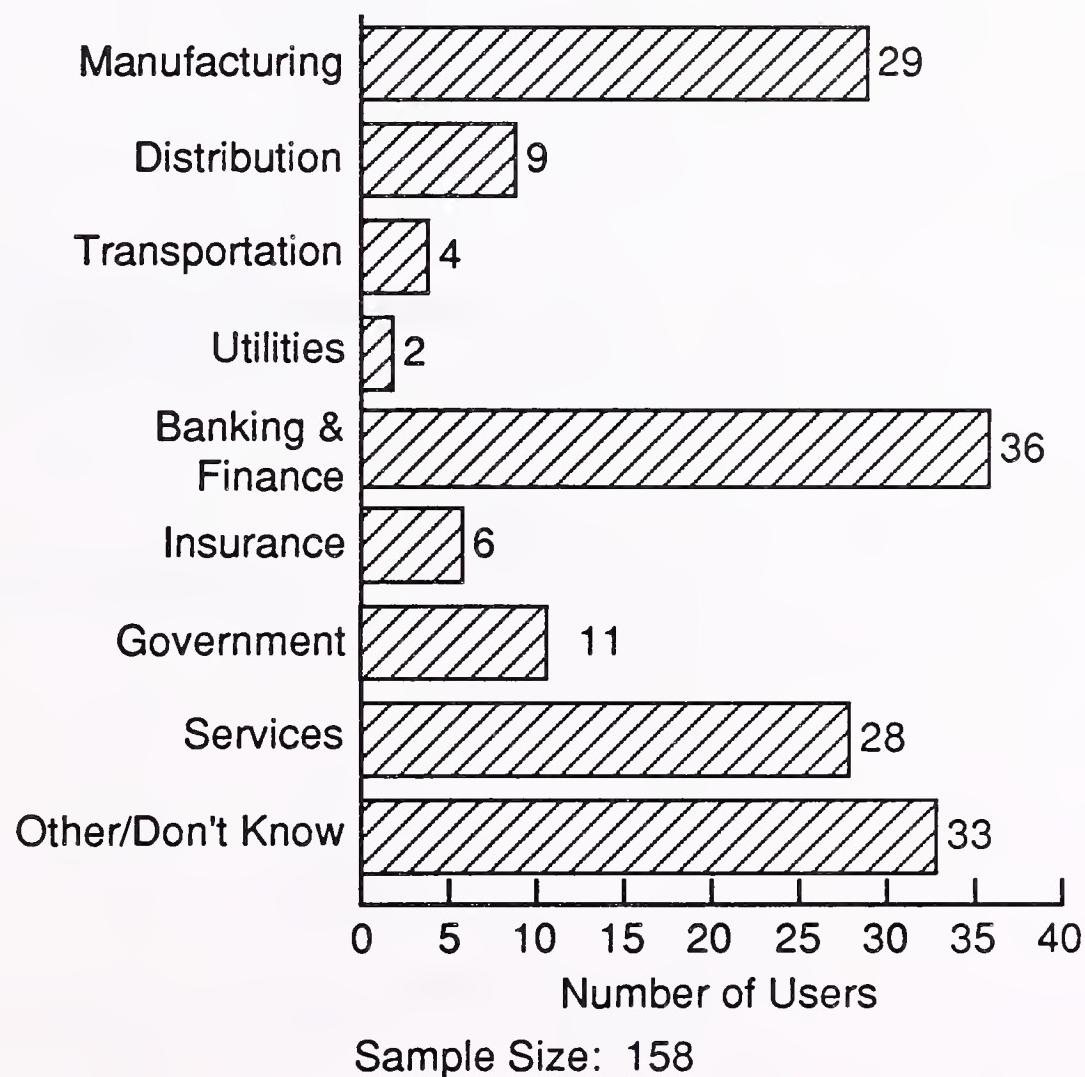




## Western European Service Performance Data

EXHIBIT III-1

**Western Europe  
Sample Distribution by Industry Sector  
Large Systems**



## EXHIBIT III-2

**Western Europe  
Hardware Service Satisfaction  
Large Systems**

Service Aspect	Importance	Satisfaction	Satisfaction Index $\Delta SI$
Spares Availability	8.8	7.8	1.0
Engineer Skills	9.0	8.1	0.9
Problem Escalation	8.4	7.5	0.9
Documentation	7.8	7.0	0.8
Remote Diagnostics	8.0	7.2	0.8
Average	8.4	7.6	0.8

Sample Size: 158

Standard Error: 0.2

## EXHIBIT III-3

**Western Europe  
Systems Software Support Satisfaction  
Large Systems**

Service Aspect	Importance	Satisfaction	Satisfaction Index $\Delta SI$
Engineer Skills	9.0	7.8	1.2
Documentation	8.4	7.0	1.4
Software Installation	8.5	7.4	1.1
Provision of Updates	8.4	7.1	1.3
Remote Diagnostics	8.1	6.7	1.4
Average	8.5	7.2	1.3

Sample Size: 158

Standard Error: 0.2

## EXHIBIT III-4

**Western Europe  
System Performance Data  
Large Systems**

System Failure Rates				
Failures Per Annum	Cause of Failure (Percent)			
	Hardware	Systems Software	Applications Software	Other
3.7	68	14	3	15

Satisfaction with System Availability		
Importance Rating	Satisfaction Rating	Satisfaction Index $\Delta SI$
9.3	8.3	1.0

Sample Size: 158

Standard Error: Failure Rate: 0.2

System Availability: 0.2

## EXHIBIT III-5

**Western Europe  
Service Response and Repair/Fix Time Performance  
Large Systems**

Hardware Service Response/Repair Times		
Response Time (Hours)		Repair Time (Hours)
Acceptable Time	Experienced Time	Acceptable Time
3.5	4.1	0.6
		Δ
		3.5
		3.8
		0.3
		Δ
		7.0
		7.9
		0.9

Systems Software Support Response/Fix Times		
Response Time (Hours)		Fix Time (Hours)
Acceptable Time	Experienced Time	Acceptable Time
6.3	9.0	2.7
		Δ
		6.2
		6.5
		0.3
		Δ
		12.5
		15.5
		3.0

Sample Size: 158  
Standard Error: 1.0

## EXHIBIT III-6

**Western Europe  
Service Provider Data  
Large Systems**

Percent Hardware Service Provided By				
Equipment Manufacturer	Dealer/ Distributor	Independent Maintainer	Self	Other
90	3	8	1	0

Percent Systems Software Support Provided By					
Equipment Manufacturer	Software House	Software Product Vendor	VAR	Self	Other
80	5	1	1	15	1

Sample Size: 158

Note: Multiple Responses Allowed

Standard Error: 0.15

## EXHIBIT III-7

**Western Europe  
User Views on  
Current Service Performance  
Large Systems**

Hardware Service		
Importance Rating	Satisfaction Rating	Satisfaction Index $\Delta SI$
9.1	8.1	1.0

Systems Software Support		
Importance Rating	Satisfaction Rating	Satisfaction Index $\Delta SI$
9.1	7.8	1.3

Sample Size: 158

Standard Error: 0.2

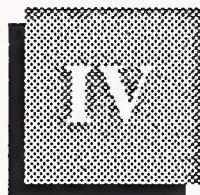




## Vendor Performance Data

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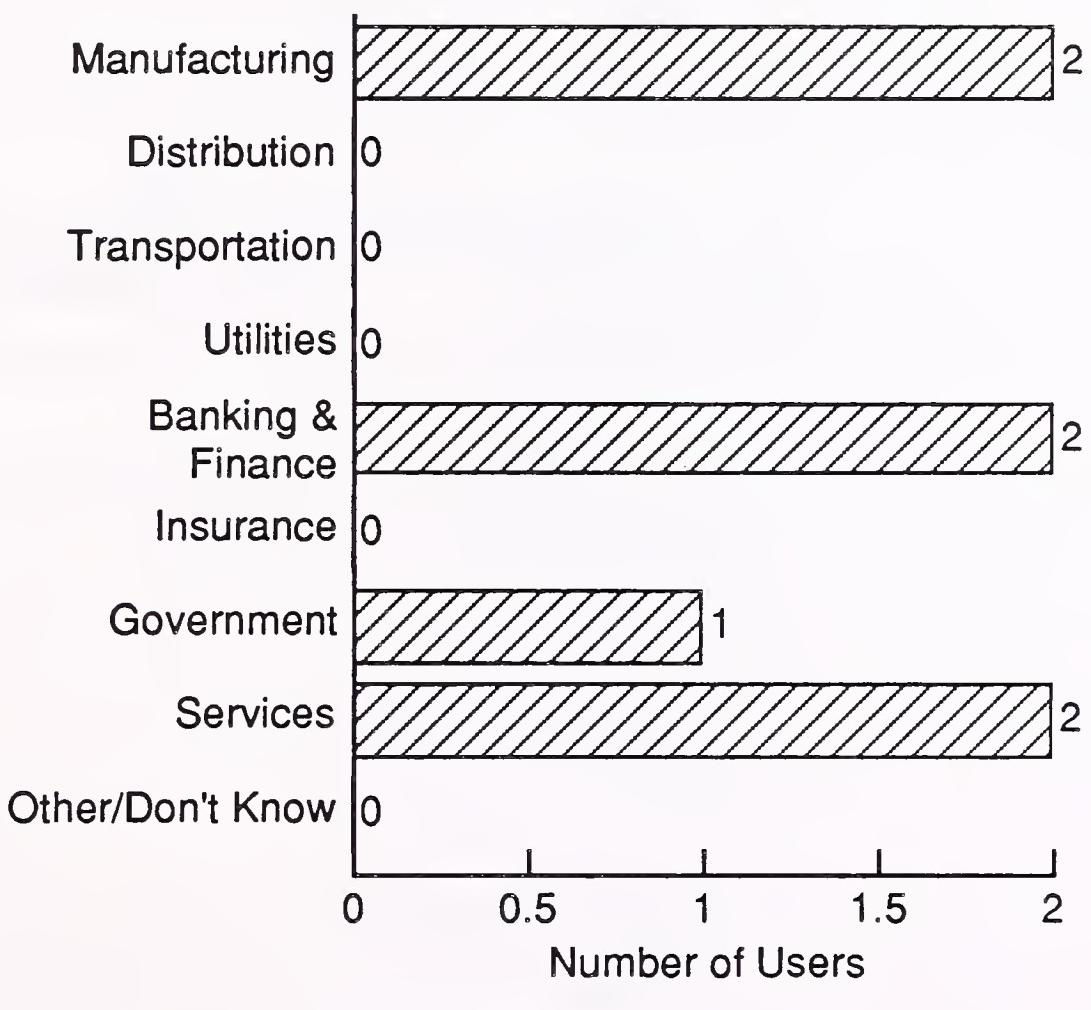
## Vendor Performance Data

A

Bull

EXHIBIT IV-1

**Bull**  
**Sample Distribution by Industry Sector**  
**Large Systems**



## EXHIBIT IV-2

**Bull**  
**Hardware Service Satisfaction**  
**Large Systems**

Service Aspect	Importance	Satisfaction	Satisfaction Index Δ SI
Spares Availability	8.9	8.1	0.8
Engineer Skills	8.1	7.3	0.8
Problem Escalation	7.3	6.3	1.0
Documentation	7.1	7.0	0.1
Remote Diagnostics	7.9	7.3	0.6
Average	7.9	7.2	0.7

Sample Size: 7

Standard Error: 0.85

## EXHIBIT IV-3

**Bull**  
**Systems Software Support Satisfaction**  
**Large Systems**

Service Aspect	Importance	Satisfaction	Satisfaction Index Δ SI
Engineer Skills	8.7	7.5	1.2
Documentation	7.9	5.7	2.2
Software Installation	8.3	7.6	0.7
Provision of Updates	7.7	7.0	0.7
Remote Diagnostics	8.1	7.0	1.1
Average	8.1	7.0	1.1

Sample Size: 7

Standard Error: 0.85

## EXHIBIT IV-4

**Bull  
System Performance Data  
Large Systems**

System Failure Rates				
Failures Per Annum	Cause of Failure (Percent)			
	Hardware	Systems Software	Applications Software	Other
2.4	90	10	0	0

Satisfaction with System Availability		
Importance Rating	Satisfaction Rating	Satisfaction Index $\Delta SI$
9.3	8.4	0.9

Sample Size: 7

Standard Error: Failure Rate: 1.0

System Availability: 0.85

## EXHIBIT IV-5

**Bull**  
**Service Response and Repair/Fix Time Performance**  
**Large Systems**

		Hardware Service Response/Repair Times					
Response Time (Hours)		Repair Time (Hours)		Total Time (Hours)			
Acceptable Time	Experienced Time	Acceptable Time	Experienced Time	Acceptable Time	Experienced Time	Acceptable Time	Experienced Time
7.0	14.8	7.8	5.6	6.0	0.4	12.6	20.8

		Systems Software Support Response/Fix Times					
Response Time (Hours)		Fix Time (Hours)		Total Time (Hours)			
Acceptable Time	Experienced Time	Acceptable Time	Experienced Time	Acceptable Time	Experienced Time	Acceptable Time	Experienced Time
3.6	7.2	3.6	6.0	8.8	2.8	9.6	16.0

Sample Size: 7  
 Standard Error: 4.5

## EXHIBIT IV-6

**Bull**  
**Service Provider Data**  
**Large Systems**

Percent Hardware Service Provided By				
Equipment Manufacturer	Dealer/ Distributor	Independent Maintainer	Self	Other
100	0	0	0	0

Percent Systems Software Support Provided By					
Equipment Manufacturer	Software House	Software Product Vendor	VAR	Self	Other
100	0	0	0	0	0

Sample Size: 7

Note: Multiple Responses Allowed

Standard Error: 0.6

## EXHIBIT IV-7

**Bull**  
**User Views on**  
**Current Service Performance**  
**Large Systems**

Hardware Service		
Importance Rating	Satisfaction Rating	Satisfaction Index Δ SI
8.4	6.7	1.7

Systems Software Support		
Importance Rating	Satisfaction Rating	Satisfaction Index Δ SI
8.9	7.6	1.3

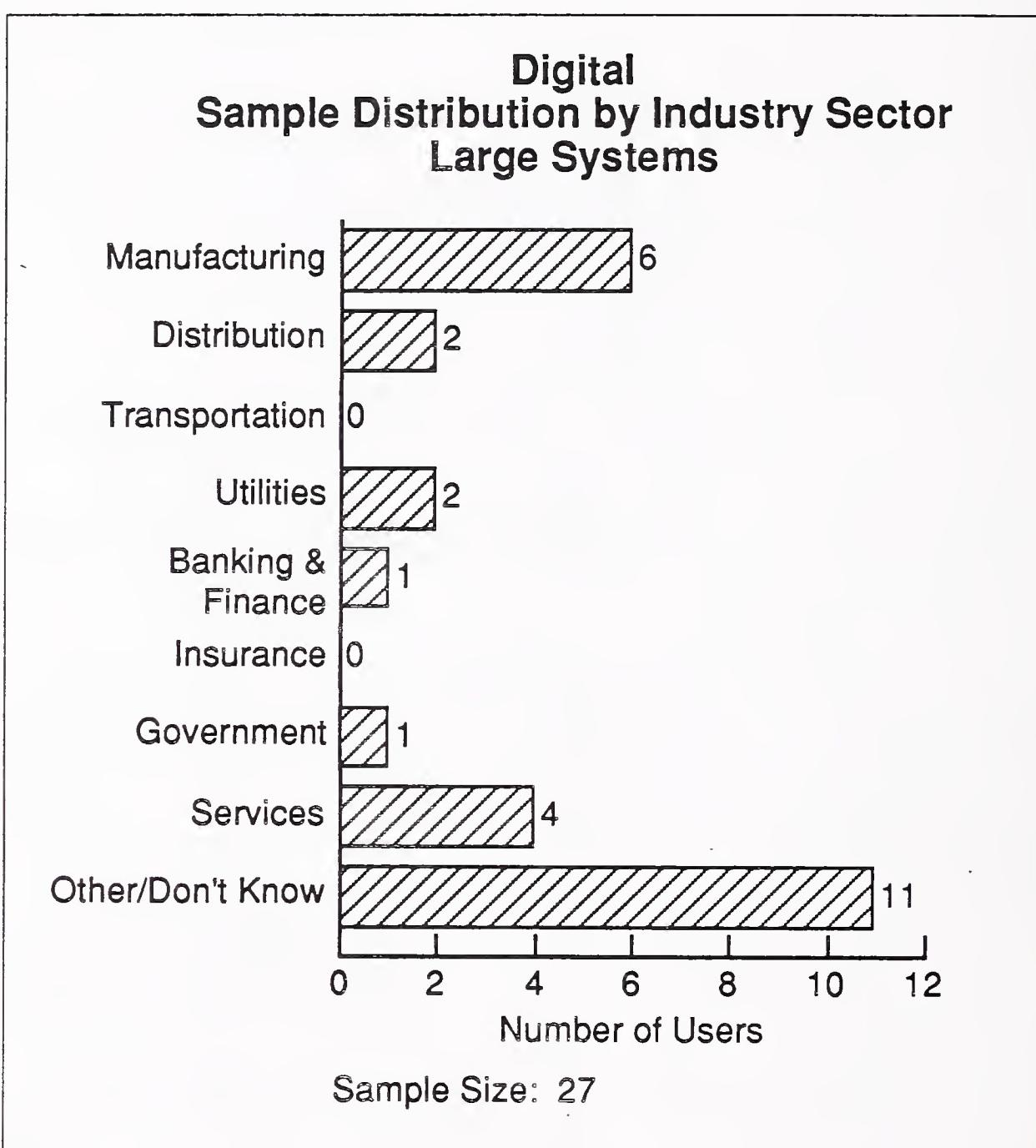
Sample Size: 7

Standard Error: 0.85

**B**

Digital

EXHIBIT IV-8



## EXHIBIT IV-9

**Digital  
Hardware Service Satisfaction  
Large Systems**

Service Aspect	Importance	Satisfaction	Satisfaction Index Δ SI
Spares Availability	8.9	7.5	1.4
Engineer Skills	9.0	7.9	1.1
Problem Escalation	8.2	7.5	0.7
Documentation	8.0	7.2	0.8
Remote Diagnostics	8.1	7.6	0.5
Average	8.5	7.5	1.0

Sample Size: 27

Standard Error: 0.4

## EXHIBIT IV-10

**Digital  
Systems Software Support Satisfaction  
Large Systems**

Service Aspect	Importance	Satisfaction	Satisfaction Index Δ SI
Engineer Skills	8.9	7.6	1.3
Documentation	8.7	6.4	2.3
Software Installation	8.5	7.3	1.2
Provision of Updates	8.6	7.1	1.5
Remote Diagnostics	8.7	7.1	1.6
Average	8.7	7.1	1.6

Sample Size: 27

Standard Error: 0.4

## EXHIBIT IV-11

**Digital  
System Performance Data  
Large Systems**

System Failure Rates				
Failures Per Annum	Cause of Failure (Percent)			
	Hardware	Systems Software	Applications Software	Other
4.7	74	9	6	11

**Satisfaction with System Availability**

Importance Rating	Satisfaction Rating	Satisfaction Index $\Delta SI$
9.5	8.4	1.1

Sample Size: 27

Standard Error: Failure Rate: 0.5

System Availability: 0.4

EXHIBIT IV-12

# Digital Service Response and Repair/Fix Time Performance Large Systems

Hardware Service Response/Repair Times		
Response Time (Hours)	Repair Time (Hours)	Total Time (Hours)
Acceptable Time	Experienced Time	Acceptable Time
3.7	3.1	(0.6)
		4.5
		4.4
		(0.1)
		8.2
		7.5
		(0.7)
		Δ
	Δ	Δ
		Δ

Sample Size: 27

### Standard Error: 2.3

## EXHIBIT IV-13

**Digital  
Service Provider Data  
Large Systems**

Percent Hardware Service Provided By				
Equipment Manufacturer	Dealer/ Distributor	Independent Maintainer	Self	Other
100	0	15	4	0

Percent Systems Software Support Provided By					
Equipment Manufacturer	Software House	Software Product Vendor	VAR	Self	Other
93	7	0	0	15	0

Sample Size: 27

Note: Multiple Responses Allowed

Standard Error: 0.3

## EXHIBIT IV-14

**Digital  
User Views on  
Current Service Performance  
Large Systems**

Hardware Service		
Importance Rating	Satisfaction Rating	Satisfaction Index $\Delta SI$
9.2	8.3	0.9

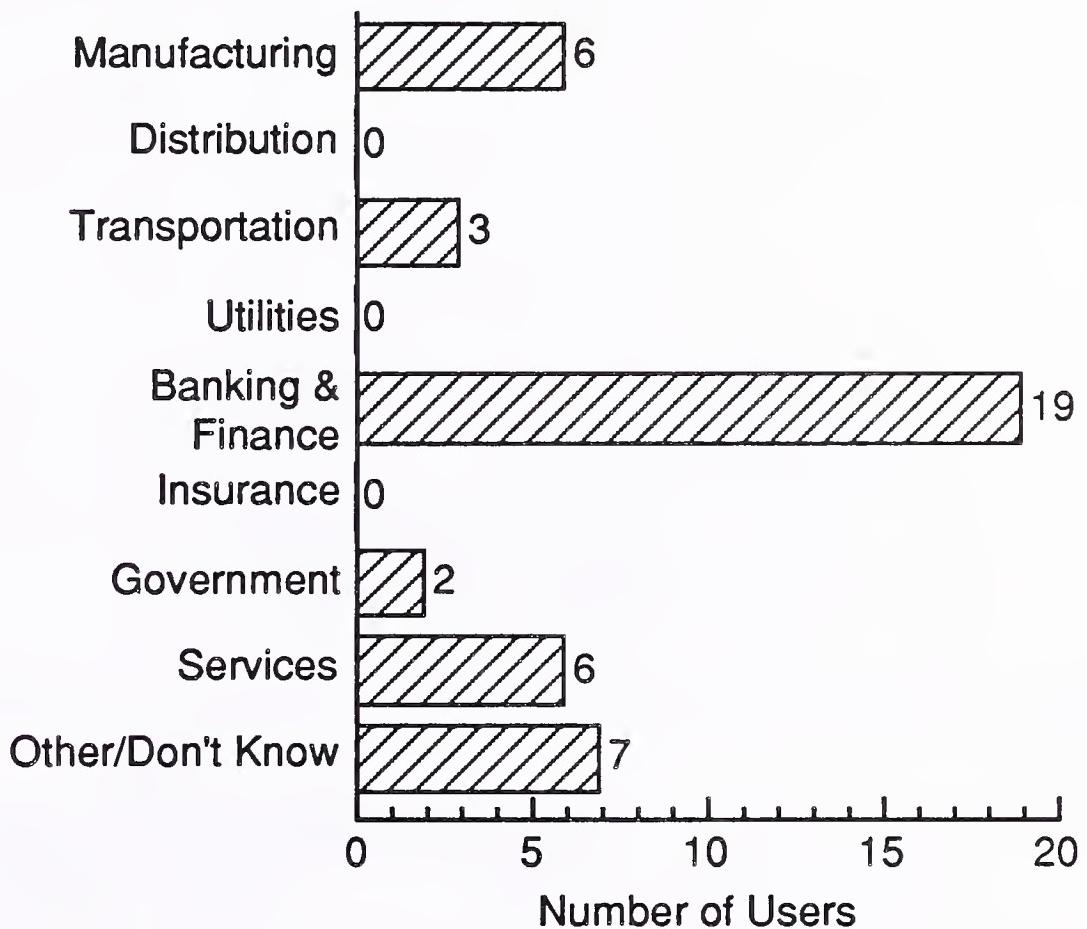
Systems Software Support		
Importance Rating	Satisfaction Rating	Satisfaction Index $\Delta SI$
9.2	7.9	1.3

Sample Size: 27

Standard Error: 0.4

**C****IBM****EXHIBIT IV-15**

**IBM**  
**Sample Distribution by Industry Sector**  
**Large Systems**



## EXHIBIT IV-16

**IBM**  
**Hardware Service Satisfaction**  
**Large Systems**

Service Aspect	Importance	Satisfaction	Satisfaction Index Δ SI
Spares Availability	9.0	8.1	0.9
Engineer Skills	9.0	8.3	0.7
Problem Escalation	8.5	7.4	1.1
Documentation	7.8	7.1	0.7
Remote Diagnostics	8.1	7.7	0.4
Average	8.5	7.7	0.8

Sample Size: 43

Standard Error: 0.35

## EXHIBIT IV-17

**IBM**  
**Systems Software Support Satisfaction**  
**Large Systems**

Service Aspect	Importance	Satisfaction	Satisfaction Index Δ SI
Engineer Skills	9.0	7.6	1.4
Documentation	8.6	7.3	1.3
Software Installation	8.4	7.5	0.9
Provision of Updates	8.4	7.2	1.2
Remote Diagnostics	8.1	7.3	0.8
Average	8.5	7.4	1.1

Sample Size: 43

Standard Error: 0.35

## EXHIBIT IV-18

**IBM  
System Performance Data  
Large Systems**

System Failure Rates				
Failures Per Annum	Cause of Failure (Percent)			
	Hardware	Systems Software	Applications Software	Other
2.3	51	19	2	28

Satisfaction with System Availability		
Importance Rating	Satisfaction Rating	Satisfaction Index $\Delta SI$
9.3	8.5	0.8

Sample Size: 43

Standard Error: Failure Rate: 0.4

System Availability: 0.35

EXHIBIT IV-19

**IBM**  
**Service Response and Repair/Fix Time Performance**  
**Large Systems**

		Hardware Service Response/Repair Times			Total Time (Hours)		
Response Time (Hours)		Repair Time (Hours)		Acceptable Time			
Acceptable Time	Experienced Time	Δ	Acceptable Time	Experienced Time	Δ	Experienced Time	
2.8	3.1	0.3	2.8	2.9	0.1	5.6	6.0
						5.6	0.4

		Systems Software Support Response/Fix Times			Total Time (Hours)		
Response Time (Hours)		Fix Time (Hours)		Acceptable Time			
Acceptable Time	Experienced Time	Δ	Acceptable Time	Experienced Time	Δ	Experienced Time	
7.7	13.5	5.8	6.7	8.5	1.8	14.4	22.0
						14.4	7.6

Sample Size: 43

Standard Error: 1.8

## EXHIBIT IV-20

**IBM**  
**Service Provider Data**  
**Large Systems**

Percent Hardware Service Provided By				
Equipment Manufacturer	Dealer/ Distributor	Independent Maintainer	Self	Other
86	9	14	2	0

Percent Systems Software Support Provided By					
Equipment Manufacturer	Software House	Software Product Vendor	VAR	Self	Other
88	7	0	2	16	2

Sample Size: 43

Note: Multiple Responses Allowed

Standard Error: 0.25

## EXHIBIT IV-21

**IBM**  
**User Views on**  
**Current Service Performance**  
**Large Systems**

Hardware Service		
Importance Rating	Satisfaction Rating	Satisfaction Index $\Delta SI$
9.0	8.3	0.7

Systems Software Support		
Importance Rating	Satisfaction Rating	Satisfaction Index $\Delta SI$
9.0	7.8	1.2

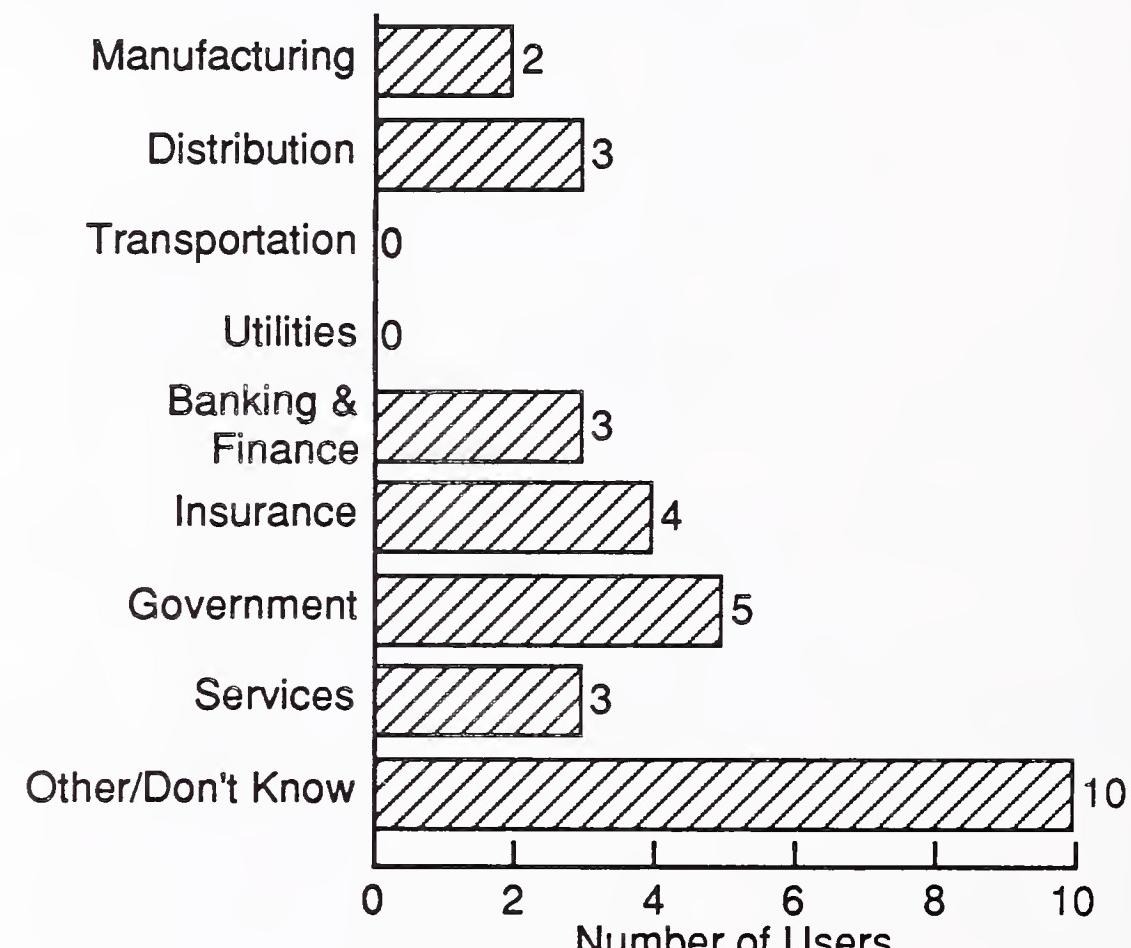
Sample Size: 43

Standard Error: 0.35

D  
ICL

EXHIBIT IV-22

**ICL**  
**Sample Distribution by Industry Sector**  
**Large Systems**



## EXHIBIT IV-23

**ICL**  
**Hardware Service Satisfaction**  
**Large Systems**

Service Aspect	Importance	Satisfaction	Satisfaction Index Δ SI
Spares Availability	7.9	7.5	0.4
Engineer Skills	8.5	8.4	0.1
Problem Escalation	7.6	7.6	0.0
Documentation	7.5	7.0	0.5
Remote Diagnostics	8.5	7.8	0.7
Average	7.9	7.7	0.2

Sample Size: 30

Standard Error: 0.4

## EXHIBIT IV-24

**ICL**  
**Systems Software Support Satisfaction**  
**Large Systems**

Service Aspect	Importance	Satisfaction	Satisfaction Index Δ SI
Engineer Skills	8.6	8.1	0.5
Documentation	7.9	6.9	1.0
Software Installation	8.1	7.4	0.7
Provision of Updates	8.2	7.3	0.9
Remote Diagnostics	8.5	6.8	1.7
Average	8.2	7.4	0.8

Sample Size: 30

Standard Error: 0.4

## EXHIBIT IV-25

**ICL**  
**System Performance Data**  
**Large Systems**

System Failure Rates				
Failures Per Annum	Cause of Failure (Percent)			
	Hardware	Systems Software	Applications Software	Other
2.6	72	13	3	12

Satisfaction with System Availability		
Importance Rating	Satisfaction Rating	Satisfaction Index $\Delta SI$
8.6	8.1	0.5

Sample Size: 30

Standard Error: Failure Rate: 0.5

System Availability: 0.4

## EXHIBIT IV-26

**NCR**  
**Service Response and Repair/Fix Time Performance**  
**Large Systems**

Response Time (Hours)		Hardware Service Response/Repair Times			Total Time (Hours)	
Acceptable Time	Experienced Time	Acceptable Time	Experienced Time	Δ	Acceptable Time	Experienced Time
2.5	3.7	1.2	2.3	2.2	(0.1)	4.8
					5.9	1.1

Response Time (Hours)		Systems Software Support Response/Fix Times			Total Time (Hours)	
Acceptable Time	Experienced Time	Acceptable Time	Experienced Time	Δ	Acceptable Time	Experienced Time
8.6	12.4	3.8	3.0	4.2	1.2	11.6
					16.6	5.0

Sample Size: 6

Standard Error: 4.9

## EXHIBIT IV-27

**ICL**  
**Service Provider Data**  
**Large Systems**

Percent Hardware Service Provided By				
Equipment Manufacturer	Dealer/ Distributor	Independent Maintainer	Self	Other
100	0	0	0	0

Percent Systems Software Support Provided By					
Equipment Manufacturer	Software House	Software Product Vendor	VAR	Self	Other
90	3	0	0	17	0

Sample Size: 30

Note: Multiple Responses Allowed

Standard Error: 0.3

## EXHIBIT IV-28

**ICL**  
**User Views on**  
**Current Service Performance**  
**Large Systems**

Hardware Service		
Importance Rating	Satisfaction Rating	Satisfaction Index $\Delta SI$
8.6	8.5	0.1

Systems Software Support		
Importance Rating	Satisfaction Rating	Satisfaction Index $\Delta SI$
8.8	8.0	0.8

Sample Size: 30

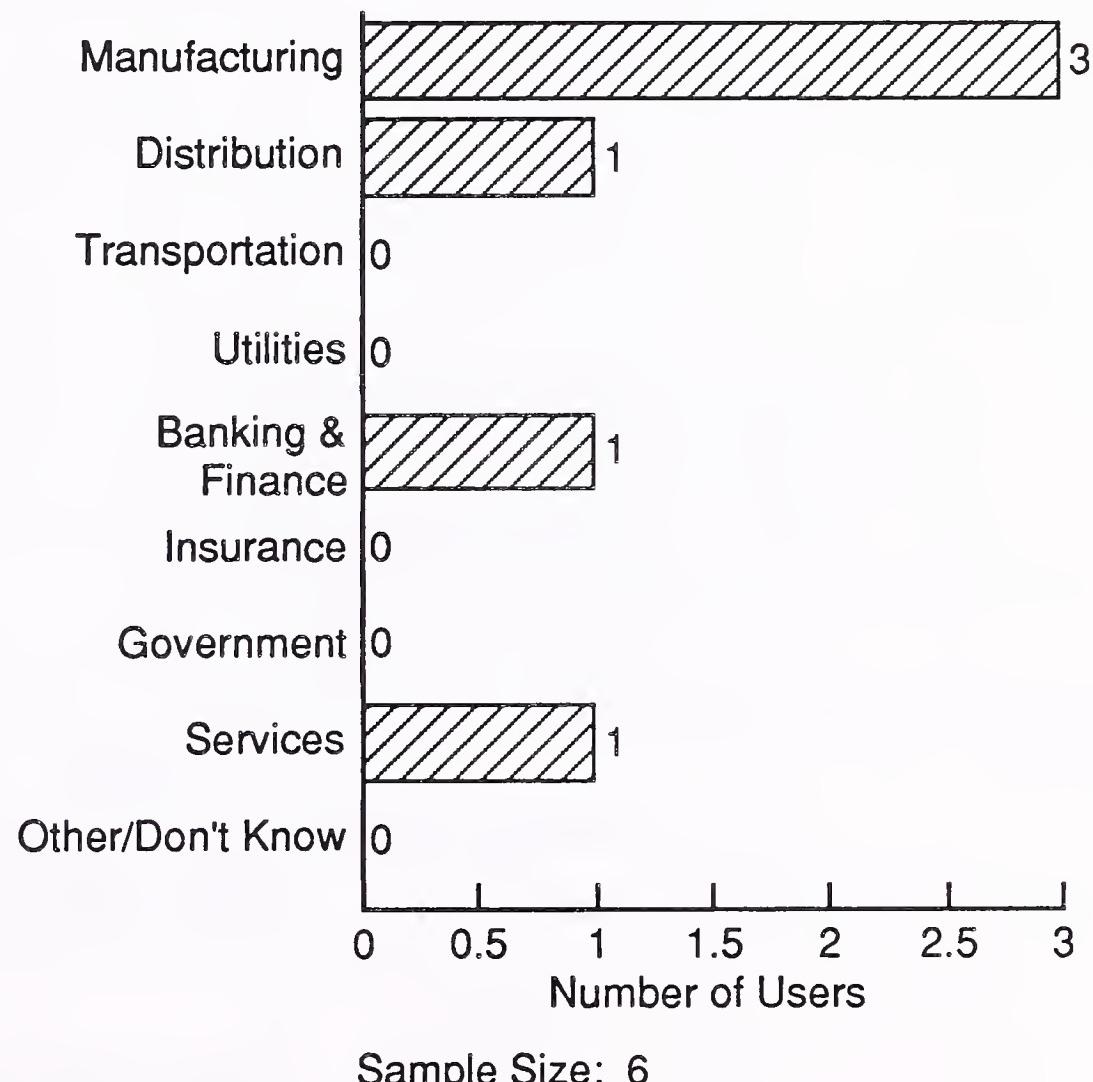
Standard Error: 0.4

E

NCR

EXHIBIT IV-29

**NCR**  
**Sample Distribution by Industry Sector**  
**Large Systems**



## EXHIBIT IV-30

**NCR**  
**Hardware Service Satisfaction**  
**Large Systems**

Service Aspect	Importance	Satisfaction	Satisfaction Index Δ SI
Spares Availability	9.2	7.5	1.7
Engineer Skills	9.2	7.7	1.5
Problem Escalation	8.7	6.8	1.9
Documentation	7.2	6.7	0.5
Remote Diagnostics	5.4	6.3	(0.9)
Average	8.0	7.1	0.9

Sample Size: 6

Standard Error: 0.9

## EXHIBIT IV-31

**NCR**  
**Systems Software Support Satisfaction**  
**Large Systems**

Service Aspect	Importance	Satisfaction	Satisfaction Index Δ SI
Engineer Skills	8.4	7.0	1.4
Documentation	8.4	6.7	1.7
Software Installation	8.0	6.2	1.8
Provision of Updates	7.0	6.7	0.3
Remote Diagnostics	4.0	4.8	(0.8)
Average	7.2	6.3	0.9

Sample Size: 6

Standard Error: 0.9

EXHIBIT IV-32

**NCR  
System Performance Data  
Large Systems**

System Failure Rates				
Failures Per Annum	Cause of Failure (Percent)			
	Hardware	Systems Software	Applications Software	Other
5.3	82	18	0	0

Satisfaction with System Availability		
Importance Rating	Satisfaction Rating	Satisfaction Index $\Delta SI$
9.6	7.4	2.2

Sample Size: 6

Standard Error: Failure Rate: 1.1

System Availability: 0.9

## EXHIBIT IV-33

**NCR**  
**Service Response and Repair/Fix Time Performance**  
**Large Systems**

Response Time (Hours)			Hardware Service Response/Repair Times			Total Time (Hours)		
Acceptable Time	Experienced Time	Δ	Acceptable Time	Experienced Time	Δ	Acceptable Time	Experienced Time	Δ
2.5	3.7	1.2	2.3	2.2	(0.1)	4.8	5.9	1.1

Response Time (Hours)			Fix Time (Hours)			Total Time (Hours)		
Acceptable Time	Experienced Time	Δ	Acceptable Time	Experienced Time	Δ	Acceptable Time	Experienced Time	Δ
8.6	12.4	3.8	3.0	4.2	1.2	11.6	16.6	5.0

Sample Size: 6

Standard Error: 4.9

## EXHIBIT IV-34

**NCR**  
**Service Provider Data**  
**Large Systems**

Percent Hardware Service Provided By				
Equipment Manufacturer	Dealer/ Distributor	Independent Maintainer	Self	Other
100	0	17	0	0

Percent Systems Software Support Provided By					
Equipment Manufacturer	Software House	Software Product Vendor	VAR	Self	Other
83	0	0	0	17	0

Sample Size: 6

Note: Multiple Responses Allowed

Standard Error: 0.65

## EXHIBIT IV-35

**NCR**  
**User Views on**  
**Current Service Performance**  
**Large Systems**

Hardware Service		
Importance Rating	Satisfaction Rating	Satisfaction Index $\Delta SI$
9.0	7.5	1.5

Systems Software Support		
Importance Rating	Satisfaction Rating	Satisfaction Index $\Delta SI$
7.8	6.8	1.0

Sample Size: 6

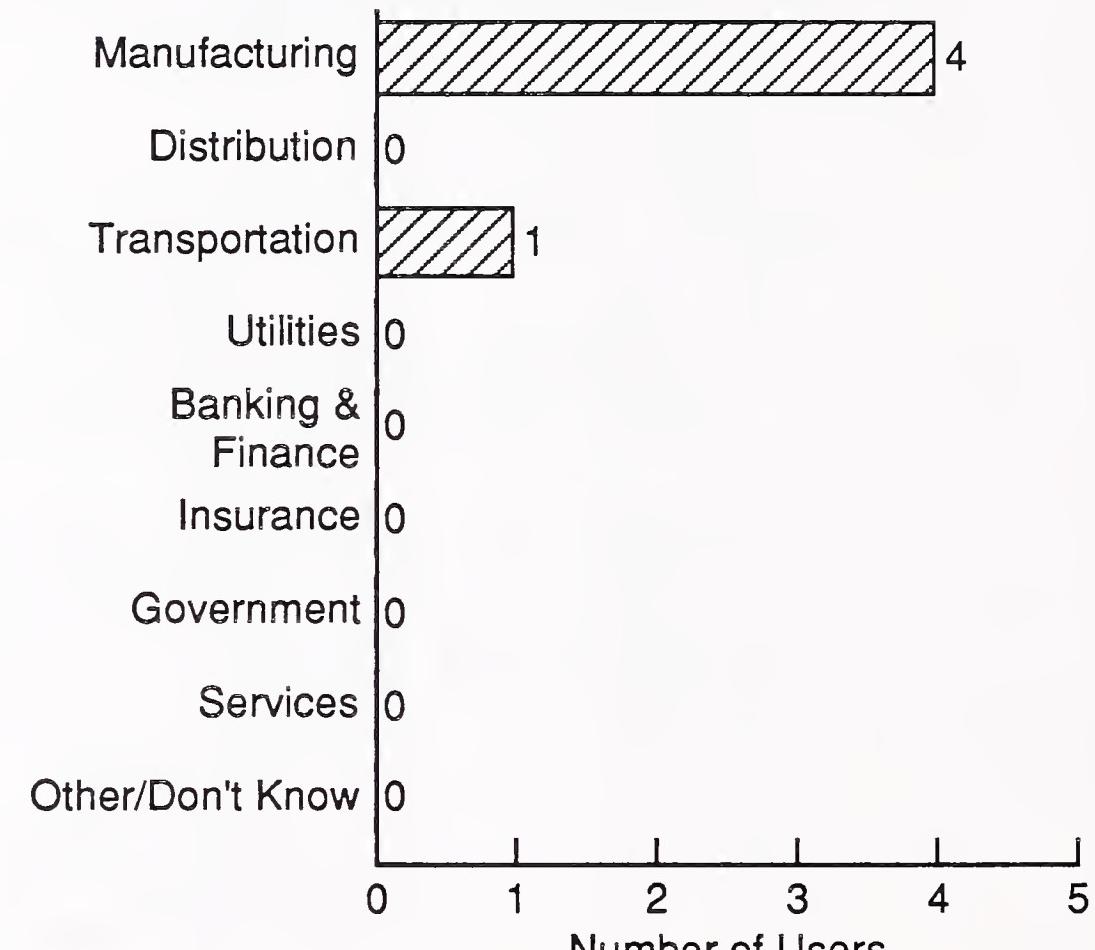
Standard Error: 0.9

F

Siemens

EXHIBIT IV-36

**Siemens**  
**Sample Distribution by Industry Sector**  
**Large Systems**



## EXHIBIT IV-37

**Siemens**  
**Hardware Service Satisfaction**  
**Large Systems**

Service Aspect	Importance	Satisfaction	Satisfaction Index Δ SI
Spares Availability	9.2	8.2	1.0
Engineer Skills	9.8	8.6	1.2
Problem Escalation	9.5	9.0	0.5
Documentation	9.0	7.6	1.4
Remote Diagnostics	8.7	7.7	1.0
Average	9.3	8.2	1.1

Sample Size: 5

Standard Error: 1.0

## EXHIBIT IV-38

**Siemens**  
**Systems Software Support Satisfaction**  
**Large Systems**

Service Aspect	Importance	Satisfaction	Satisfaction Index Δ SI
Engineer Skills	9.8	8.8	1.0
Documentation	9.4	8.4	1.0
Software Installation	9.0	8.4	0.6
Provision of Updates	9.2	8.2	1.0
Remote Diagnostics	7.7	7.3	0.4
Average	9.1	8.3	0.8

Sample Size: 5

Standard Error: 1.0

## EXHIBIT IV-39

**Siemens  
System Performance Data  
Large Systems**

System Failure Rates				
Failures Per Annum	Cause of Failure (Percent)			
	Hardware	Systems Software	Applications Software	Other
2.6	87	0	13	0

Satisfaction with System Availability		
Importance Rating	Satisfaction Rating	Satisfaction Index $\Delta SI$
9.5	9.0	0.5

Sample Size: 5

Standard Error: Failure Rate: 1.2

System Availability: 1.0

EXHIBIT IV-40

**Siemens  
Service Response and Repair/Fix Time Performance  
Large Systems**

Hardware Service Response/Repair Times			
Response Time (Hours)	Acceptable Time	Experienced Time	Repair Time (Hours)
Acceptable Time	Experienced Time	Δ	Δ
2.0	6.8	4.8	1.8
			2.0
			0.2
			3.8
			8.8
			5.0

Systems Software Support Response/Fix Times			
Response Time (Hours)	Acceptable Time	Experienced Time	Fix Time (Hours)
Acceptable Time	Experienced Time	Δ	Δ
5.8	13.0	7.2	2.2
			3.0
			0.8
			8.0
			16.0
			8.0

Sample Size: 5

Standard Error: 5.4

## EXHIBIT IV-41

**Siemens  
Service Provider Data  
Large Systems**

Percent Hardware Service Provided By				
Equipment Manufacturer	Dealer/ Distributor	Independent Maintainer	Self	Other
80	20	0	0	0

Percent Systems Software Support Provided By					
Equipment Manufacturer	Software House	Software Product Vendor	VAR	Self	Other
100	20	0	0	0	0

Sample Size: 5

Note: Multiple Responses Allowed

Standard Error: 0.7

## EXHIBIT IV-42

**Siemens  
User Views on  
Current Service Performance  
Large Systems**

Hardware Service		
Importance Rating	Satisfaction Rating	Satisfaction Index $\Delta SI$
9.4	7.8	1.6

Systems Software Support		
Importance Rating	Satisfaction Rating	Satisfaction Index $\Delta SI$
9.2	7.0	2.2

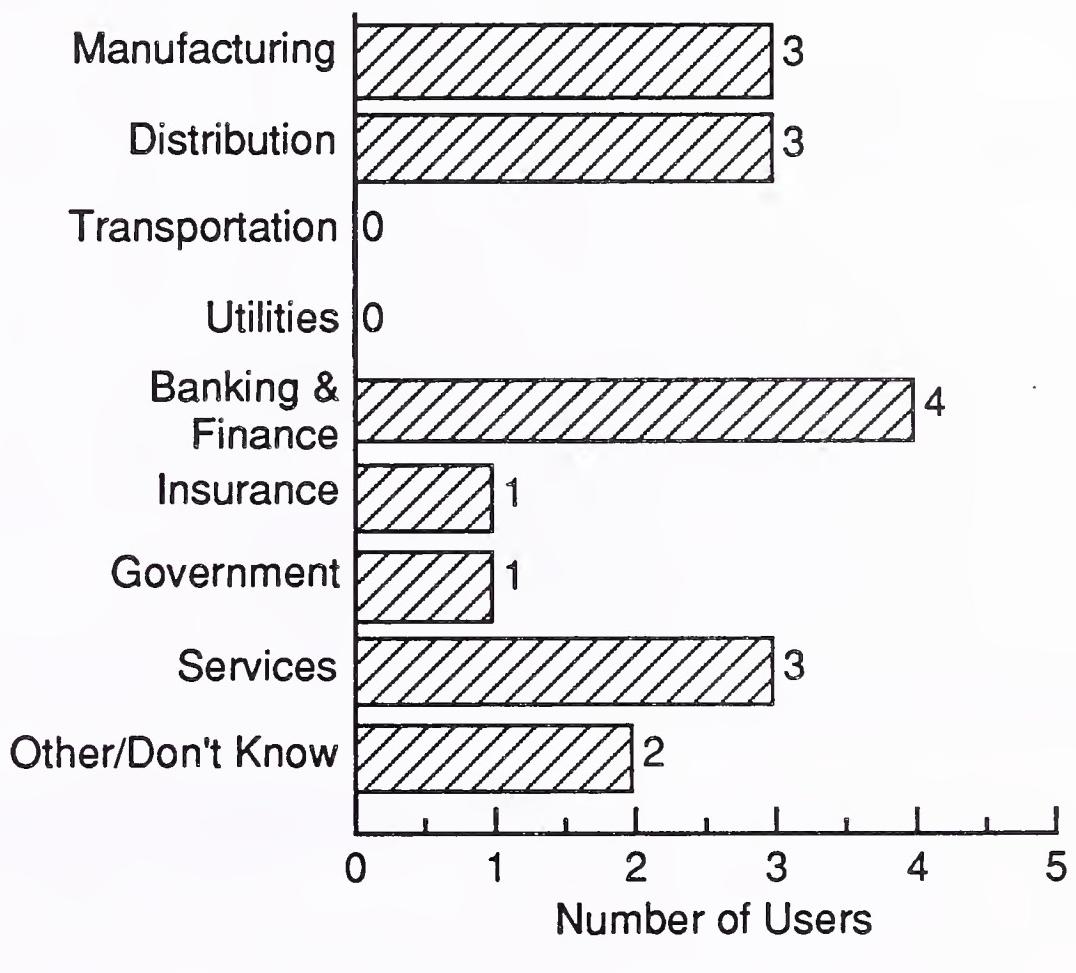
Sample Size: 5

Standard Error: 1.0

**G****Unisys**

EXHIBIT IV-43

**Unisys  
Sample Distribution by Industry Sector  
Large Systems**



## EXHIBIT IV-44

**Unisys**  
**Hardware Service Satisfaction**  
**Large Systems**

Service Aspect	Importance	Satisfaction	Satisfaction Index Δ SI
Spares Availability	9.0	7.9	1.1
Engineer Skills	8.9	8.1	0.8
Problem Escalation	8.6	7.7	0.9
Documentation	7.5	7.3	0.2
Remote Diagnostics	7.9	6.6	1.3
Average	8.4	7.6	0.8

Sample Size: 17

Standard Error: 0.55

## EXHIBIT IV-45

**Unisys**  
**Systems Software Support Satisfaction**  
**Large Systems**

Service Aspect	Importance	Satisfaction	Satisfaction Index Δ SI
Engineer Skills	9.1	8.1	1.0
Documentation	8.7	7.5	1.2
Software Installation	8.7	7.9	0.8
Provision of Updates	8.7	7.3	1.4
Remote Diagnostics	7.7	6.3	1.4
Average	8.6	7.5	1.1

Sample Size: 17

Standard Error: 0.55

## EXHIBIT IV-46

**Unisys  
System Performance Data  
Large Systems**

System Failure Rates				
Failures Per Annum	Cause of Failure (Percent)			
	Hardware	Systems Software	Applications Software	Other
5.4	75	15	0	10

Satisfaction with System Availability		
Importance Rating	Satisfaction Rating	Satisfaction Index $\Delta SI$
9.4	8.1	1.3

Sample Size: 17

Standard Error: Failure Rate: 0.65

System Availability: 0.55

## EXHIBIT IV-47

**Unisys**  
**Service Response and Repair/Fix Time Performance**  
**Large Systems**

Hardware Service Response/Repair Times		
Response Time (Hours)	Repair Time (Hours)	Total Time (Hours)
Acceptable Time	Experienced Time	Acceptable Time
3.7	4.7	1.0
		1.7
		2.5
		0.8
		5.4
		7.2
		1.8

Systems Software Support Response/Fix Times		
Response Time (Hours)	Fix Time (Hours)	Total Time (Hours)
Acceptable Time	Experienced Time	Acceptable Time
10.7	20.1	9.4
		7.1
		3.8
		(3.3)
		17.8
		23.9
		6.1

Sample Size: 17

Standard Error: 2.9

## EXHIBIT IV-48

**Unisys  
Service Provider Data  
Large Systems**

Percent Hardware Service Provided By				
Equipment Manufacturer	Dealer/ Distributor	Independent Maintainer	Self	Other
100	0	0	0	0

Percent Systems Software Support Provided By					
Equipment Manufacturer	Software House	Software Product Vendor	VAR	Self	Other
88	6	0	0	29	0

Sample Size: 17

Note: Multiple Responses Allowed

Standard Error: 0.4

## EXHIBIT IV-49

**Unisys  
User Views on  
Current Service Performance  
Large Systems**

Hardware Service		
Importance Rating	Satisfaction Rating	Satisfaction Index $\Delta SI$
9.4	8.0	1.4

Systems Software Support		
Importance Rating	Satisfaction Rating	Satisfaction Index $\Delta SI$
9.4	7.8	1.6

Sample Size: 17

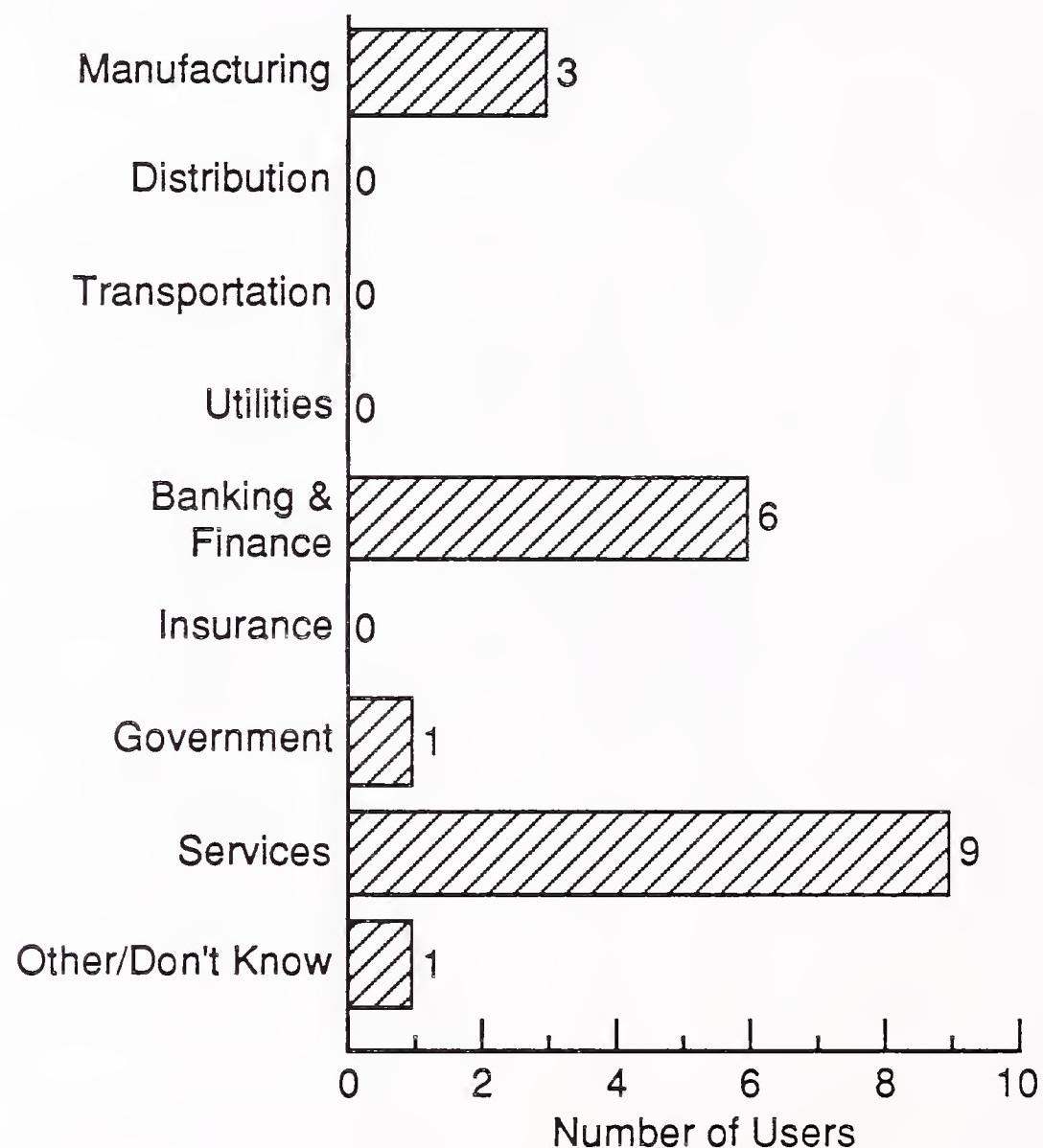
Standard Error: 0.55

**H**

Wang

EXHIBIT IV-50

**Wang**  
**Sample Distribution by Industry Sector**  
**Large Systems**



## EXHIBIT IV-51

**Wang**  
**Hardware Service Satisfaction**  
**Large Systems**

Service Aspect	Importance	Satisfaction	Satisfaction Index Δ SI
Spares Availability	9.1	7.5	1.6
Engineer Skills	9.7	8.0	1.7
Problem Escalation	9.0	6.7	2.3
Documentation	8.5	6.6	1.9
Remote Diagnostics	8.3	5.6	2.7
Average	9.0	7.0	2.0

Sample Size: 20

Standard Error: 0.5

## EXHIBIT IV-52

**Wang**  
**Systems Software Support Satisfaction**  
**Large Systems**

Service Aspect	Importance	Satisfaction	Satisfaction Index Δ SI
Engineer Skills	9.7	7.9	1.8
Documentation	8.9	6.9	2.0
Software Installation	8.8	6.8	2.0
Provision of Updates	8.6	6.5	2.1
Remote Diagnostics	8.6	5.0	3.6
Average	8.9	6.7	2.2

Sample Size: 20

Standard Error: 0.5

## EXHIBIT IV-53

**Wang**  
**System Performance Data**  
**Large Systems**

System Failure Rates				
Failures Per Annum	Cause of Failure (Percent)			
	Hardware	Systems Software	Applications Software	Other
5.3	68	32	NA	NA

Satisfaction with System Availability		
Importance Rating	Satisfaction Rating	Satisfaction Index $\Delta SI$
9.8	8.5	1.3

NA = Data not available for the Wang sample.

Sample Size: 20

Standard Error: Failure Rate: 0.6

System Availability: 0.5

EXHIBIT IV-54

**Wang**  
**Service Response and Repair/Fix Time Performance**  
**Large Systems**

Hardware Service Response/Repair Times		
Response Time (Hours)	Repair Time (Hours)	Total Time (Hours)
Acceptable Time	Experienced Time	Acceptable Time
4.3	7.8	12.1
Acceptable Time	Experienced Time	Acceptable Time
4.3	7.8	12.1

Systems Software Support Response/Fix Times		
Response Time (Hours)	Fix Time (Hours)	Total Time (Hours)
Acceptable Time	Experienced Time	Acceptable Time
5.0	9.9	14.9
Acceptable Time	Experienced Time	Acceptable Time
5.0	9.9	14.9

Sample Size: 20

Standard Error: 2.7

## EXHIBIT IV-55

**Wang**  
**Service Provider Data**  
**Large Systems**

Percent Hardware Service Provided By				
Equipment Manufacturer	Dealer/ Distributor	Independent Maintainer	Self	Other
95	5	10	-	-

Percent Systems Software Support Provided By					
Equipment Manufacturer	Software House	Software Product Vendor	VAR	Self	Other
95	5	-	-	-	-

Sample Size: 20

Note: Multiple Responses Allowed

Standard Error: 0.35

## EXHIBIT IV-56

**Wang**  
**User Views on**  
**Current Service Performance**  
**Large Systems**

Hardware Service		
Importance Rating	Satisfaction Rating	Satisfaction Index $\Delta SI$
9.5	7.7	1.8

Systems Software Support		
Importance Rating	Satisfaction Rating	Satisfaction Index $\Delta SI$
9.8	7.7	2.1

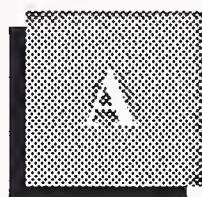
Sample Size: 20

Standard Error: 0.5

# Appendix

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## Appendix: User Questionnaire

**A**

### General

1. What is the make and model number of the main computer on your site and how many do you have?

Make \_\_\_\_\_

Model \_\_\_\_\_ (CRITICAL INFORMATION)

Units \_\_\_\_\_

2. Are you the person who is knowledgeable on the servicing of this system?

\_\_\_\_ Yes      \_\_\_\_ No

(If not then obtain the name of the correct person and start again.)

Name of person responsible \_\_\_\_\_

3. Do you have another system? What is the make and model number of that system and how many do you have?

Make \_\_\_\_\_

Model \_\_\_\_\_ (CRITICAL INFORMATION)

Units \_\_\_\_\_

All of the following questions that I am going to ask you are related to your \_\_\_\_\_ system. (Write in system type.)

(To confirm, read out the make and model number.)

4. So that we can ensure that we get a proper cross-section of industry and commerce, can you tell me what is the main business sector of your company? (Read out the list—to allow for best choice. Then circle appropriate answer.)

Business sector

- Manufacturing 1
- Distribution 2
- Transportation 3
- Utilities 4
- Banking and Finance 5
- Insurance 6
- Government 7
- Services 8
- Other/Don't Know 9

B

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Service Vendor Selection

I would like to ask you some questions relating to the vendor that services your computer system.

5. Could you please rate the importance of the following criteria in selecting your service vendor, on a scale of 0 to 10 (0 = low, 10 = high).

<u>Criteria</u>	<u>Rating</u>
-----------------	---------------

- a. Price \_\_\_\_\_
- b. Quality of service \_\_\_\_\_
- c. Guaranteed system availability level \_\_\_\_\_
- d. Guaranteed availability of spare parts \_\_\_\_\_
- e. Technical expertise \_\_\_\_\_
- f. Fast response time \_\_\_\_\_
- g. Availability of software support \_\_\_\_\_
- h. Ability to provide other services \_\_\_\_\_
- i. Contract flexibility \_\_\_\_\_
- j. Ability to service other products \_\_\_\_\_
- k. Vendor reputation \_\_\_\_\_

- 6a. Would you please tell me who services your computer system hardware? (Remind the user \_\_\_\_\_ system.)

(Please circle appropriate vendor type; multiple answers are allowed.)

- Manufacturer 1
- Dealer/distributor 1
- Third-party maintenance company 1
- Own company 1
- Other 1

(If the respondent answered YES to third-party maintenance, ask the following question. If not, go to question 7.)

- 6b. I notice that your system, or part of it, is serviced by a third-party maintenance company. Could you tell me the reason why you use third-party maintenance?

(Please circle appropriate answer; multiple answers allowed.)

• Lower cost	1
• Local service	1
• Single-source service	1
• TPM service higher quality	1
• More flexible contract	1
• Other/Don't know	9

- 7a. I notice that you *do not* use a third-party maintenance company; is there a reason for this?

(Please circle appropriate answer; multiple answers allowed.)

Satisfied with manufacturer	1
Manufacturer has an advantage	1
TPM cannot support software	1
Tied to manufacturer with contract	1
Fear of system supplier response	1
Considered and rejected TPM	1
TPM financial weakness	1
Unaware of TPM	1
Other/Don't know	9

- 7b. Assuming you were approached by a TPM company, at what level of price reduction would you consider using a TPM vendor to service your computer hardware?

(Please circle appropriate answer. Only one answer allowed.)

• 1% - 10%	1
• 11% - 20%	1
• 21% - 30%	1
• 31% - 40%	1
• 41% - 50%	1
• 50%+	1
• Unwilling at any price	1
• Other/Don't know	9

8. How important is it that your service vendor communicates with you regularly and effectively to advise you of, for example:

____ The status of your system	>	
____ Possible problems	>	
____ Repair plans	>	INTERVIEWER
____ Availability of spare parts	>	PROMPTS
____ Routine visits	>	
____ Hardware and software changes	>	

Could you please provide an importance and satisfaction rating on a scale of 0 to 10, where 0 is of no importance or indicates total dissatisfaction, and 10 is at top importance or indicates that you are fully satisfied.

- Importance \_\_\_\_\_
- Satisfaction \_\_\_\_\_

9a. Would you prefer all hardware maintenance and software support to be provided by one service vendor at each site? If yes, what would your interest level be?

Level of interest: (please circle)

Low              Medium              High

(Circle answer.)

Yes	1
No	1
Don't know	9

(If the respondent answered YES, ask:)

9b. Who would you prefer that vendor to be?

(Please circle appropriate answer; multiple answers allowed.)

• The manufacturer of your main hardware	1
• Dealer/distributor/VAR	1
• TPM company	1
• One of your hardware manufacturers	1
• Don't know/other	9

Note: VAR is a value-added reseller.

## C

### Hardware Maintenance

I would now like to ask you some questions about the hardware maintenance of your computer system. (Reaffirm the system type \_\_\_\_\_)

Some of the questions are scaled with ratings from 0 to 10. Zero (0) represents zero importance or satisfaction, 5 is average, and 10 represents top importance or full satisfaction.

10. What is your rating for the importance of hardware maintenance to your business and how satisfied are you with your service vendor's performance?

- Importance rating \_\_\_\_\_
- Satisfaction rating \_\_\_\_\_

11. If we define **systems availability** as the percentage of your normal working hours that the system is operational (disregarding non-critical peripheral breaks), what percentage has that been for your system over the last twelve months?

- Percentage \_\_\_\_\_ %

12. How many times each year does your system fail completely for a period of greater than one hour?

- Per year \_\_\_\_\_

And what percentage of these system failures are due to:

Hardware	_____ %
Systems software	_____ %
Applications software	_____ %
Other (i.e., power failure)	_____ %

(Please check that percentages add up to 100.)

13. What is your rating for the importance of **systems availability** (scale 0 - 10), and what is your level of satisfaction?

- Importance rating \_\_\_\_\_
- Satisfaction rating \_\_\_\_\_

14. Defining **hardware response time** as the time it takes between reporting a fault and the arrival of the service engineer on site (in working hours, that is to say 8 hours = 1 working day), what response time (in hours) do you find acceptable and what did you actually experience as an average over the last twelve months?

- Acceptable \_\_\_\_\_ Hours
- Experienced \_\_\_\_\_ Hours

15. If **repair time** is defined as the time taken to get the system fully operational from the time the engineer arrives on site, then what time do you find acceptable (in working hours) and what time did you experience in the last twelve months?

(Note: 8 hours = 1 working day/shift)

- Acceptable \_\_\_\_\_ Hours
- Experienced \_\_\_\_\_ Hours

16. I would now like to go through a list of five aspects of hardware maintenance and ask you to give an importance and satisfaction rating for each (scale 0 - 10).

	<u>Importance</u>	<u>Satisfaction</u>
• Spares availability	_____	_____
• Engineer skills	_____	_____
• Problem escalation	_____	_____
• Documentation	_____	_____
• Remote diagnostics	_____	_____

17. How important is it that your system supplier provides a hardware consultancy/planning service to support your operations and how satisfied are you with the service provided? (Scale 0 - 10)

- Importance \_\_\_\_\_
- Satisfaction \_\_\_\_\_

18. If possible, I would like you to provide some information on hardware maintenance pricing.

- a. What percentage price increase or decrease did you pay for hardware maintenance in the year 1989?

- Increase \_\_\_\_\_ %
- Decrease \_\_\_\_\_ %

- No change      1    (circle)

- b. What do you expect the price changes for hardware maintenance to be in the future, in percentage terms per annum?

- Increase \_\_\_\_\_ %
- Decrease \_\_\_\_\_ %

- No change      1    (circle)

- c. How important do you rate hardware maintenance pricing and how satisfied are you with the price you currently pay? (Scale 0 - 10)

- Importance rating \_\_\_\_\_
- Satisfaction rating \_\_\_\_\_

19. Which type of hardware maintenance contract do you currently have on the main part of your system?

(Please circle appropriate answer; only one answer allowed.)

- Warranty 1
- Three-year 1
- One-year 1
- Time and materials 1
- None 1

## D

### Software Support

I would like to ask you some questions relating to the service you get from your software support vendor.

These questions relate to systems software—not applications.

As before, some of the questions are scaled with ratings from 0 to 10. Zero (0) represents zero importance or satisfaction, 5 is average and 10 is top importance or full satisfaction.

20. Who supports your systems software?

(Please circle appropriate answer; multiple answers allowed.)

- Hardware manufacturer 1
- Software house 1
- Software product vendor 1
- Value-added reseller (VAR) 1
- In-house 1
- Other/Don't know 9

21. What is your rating for the importance of systems software support to your business and what is your satisfaction with your vendor's systems support activities? (Scale 0 - 10)

- Importance rating \_\_\_\_\_
- Satisfaction rating \_\_\_\_\_

22. What percentage of systems software problems are solved by telephone, and how long does this take in elapsed time from the time it is alerted to the service engineer?

- Solved by phone \_\_\_\_\_ %
- Elapsed time \_\_\_\_\_ Hours

23. For those problems not possible to solve over the telephone, what **response time** would you find acceptable, and what time (on average and in working hours) have you experienced over the last twelve months? (Take **response time** to mean from the time the problem is reported to the arrival of the engineer on site.)

- Acceptable \_\_\_\_\_ Hours
- Experienced \_\_\_\_\_ Hours

24. If **fix time** is defined as the time taken to get the system fully operational from the arrival of the engineer on site, then what time (in working hours) do you find acceptable, and what did you experience over the last twelve months?

- Acceptable \_\_\_\_\_ Hours
- Experienced \_\_\_\_\_ Hours

25. I would like to go through a list of five aspects of **systems software support** and ask you to give an importance and a satisfaction rating for each. (Scale 0 - 10)

<u>Importance</u>	<u>Satisfaction</u>
-------------------	---------------------

- |                         |       |
|-------------------------|-------|
| • Engineer skills       | _____ |
| • Documentation         | _____ |
| • Software installation | _____ |
| • Provision of updates  | _____ |
| • Remote diagnostics    | _____ |

26. How important is it that your system supplier provides a **systems software consultancy/planning service** to support your operations and how satisfied are you with the service provided? (Scale 0 - 10)

- Importance rating \_\_\_\_\_
- Satisfaction rating \_\_\_\_\_

27. If possible I would like you to provide some information on **systems software support pricing**.

a. What percentage price increase or decrease did you pay for systems software support in the year 1989?

- Increase \_\_\_\_\_ %
- Decrease \_\_\_\_\_ %
- No change    1    (circle)

b. What do you expect the price changes for systems software support to be in the future, in percentage terms per annum?

- Increase \_\_\_\_\_ %
- Decrease \_\_\_\_\_ %
- No change    1    (circle)

c. How important do you rate systems software support pricing and how satisfied are you with the price you currently pay? (Scale 0 - 10)

- Importance rating \_\_\_\_\_
- Satisfaction rating \_\_\_\_\_

28. Which type of systems software support contract do you currently have?

(Please circle appropriate answer. Only one answer allowed.)

- Support included in software license fee    1
- Three-year contract                                1
- One-year contract                                1
- Ad hoc    1
- None    1

## E

### Other Services

29. To conclude this questionnaire, I am particularly interested in obtaining your views on other services or modified current service offerings that your service suppliers could provide that would help to improve the running of your computer systems.

Could you say which of the following services your service vendor is currently contracted to supply and which you would like your service vendor to provide? Also, could you give a level of interest rating against each in the range 0 to 10, where 0 = no interest, 5 = average interest and 10 = must have?

(Please circle appropriate answer and give LOI rating.)

	<u>Currently Contracted</u>	<u>Require</u>	<u>LOI</u>
• Configuration planning	1	1	_____
• Capacity planning	1	1	_____
• Environmental planning	1	1	_____
• Cabling	1	1	_____
• Software evaluation	1	1	_____
• Consultancy	1	1	_____
• Network planning	1	1	_____

29. (cont.)

	<u>Currently Contracted</u>	<u>Require</u>	<u>LOI</u>
• Network management	1	1	_____
• Disaster recovery	1	1	_____
• Facilities management	1	1	_____
• Problems management	1	1	_____
• Applications software support	1	1	_____

These last questions complete the questionnaire. I would like to thank you on behalf of INPUT for helping us to complete this survey. To express our appreciation for your time we will be sending you a "thank you" package containing a summary of the results from our survey.

Again, thank you for your time.





# Report Quality Evaluation

To our clients:

To ensure that the highest standards of report quality are maintained, INPUT would appreciate your assessment of this report. Please take a moment to provide your evaluation of the usefulness and quality of this study. When complete, simply fold, staple, and drop in the post.

Thank You.

1. Report title: **User Satisfaction with Vendor Customer Services—Large Systems, Western Europe, 1990** (CEUSO)

2. Please indicate your reason for reading this report:

- Required reading       New product development       Future purchase decision  
 Area of high interest       Business/market planning       Systems planning  
 Area of general interest       Product planning       Other \_\_\_\_\_

3. Please indicate extent report used and overall usefulness:

	Extent		Usefulness (1=Low, 5=High)				
	Read	Skimmed	1	2	3	4	5
Executive Overview .....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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4. How useful were:

- Data presented .....  
Analyses .....  
Recommendations .....

5. How useful was the report in these areas:

- Alert you to new opportunities or approaches .....  
Cover new areas not covered elsewhere .....  
Confirm existing ideas .....  
Meet expectations .....  
Other \_\_\_\_\_

6. Which topics in the report were the most useful? Why? \_\_\_\_\_

7. In what ways could the report have been improved? \_\_\_\_\_

8. Other comments or suggestions: \_\_\_\_\_

Name \_\_\_\_\_ Title \_\_\_\_\_

Department \_\_\_\_\_

Company \_\_\_\_\_

Address \_\_\_\_\_

Country \_\_\_\_\_

Telephone \_\_\_\_\_ Date completed \_\_\_\_\_

Thank you for your time and cooperation.

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